Quantitative Aptitude

Directions (Q. 1-10): What should come in place of the question mark (?) in the following questions?

1.	$(6)^3 \times (9)^2 \div 1$ a) 1458	8 = ? b) 972	c) 8748	d) 162	e) None of these
2.	$\sqrt[3]{941192} = ?$ a) 101	b) 98	c) 96	d) 99	e) None of these
3.	999 × 99 × 9 = a) 891009	? b) 890019	c) 890190	d) 890109	e) None of these
4.	7410 + ?2 3652 a) 9451	2 1479 = 11820 b) 9527	c) 9441	d) 9541	e) None of these
5.	32% of 860 × ? a) 252	= 61920 b) 255	c) 215	d) 205	e) None of these
6.	963 × 874 = ? a) 840788	b) 843588	c) 839736	d) 842536	e) None of these
7.	$\sqrt{12544} \div 64 \times a) 30$? = 43.75 b) 15	c) 25	d) 40	e) None of these
8.	444 ÷ (16 × 1.5 a) 41.625	5) = ? b) 222	c) 18.5	d) 185	e) None of these
9.	$(16)^9 \div (16)^4 \times a) 6.75$	$(16)^3 = (16)^?$ b) 8	c) 10	d) 12	e) None of these
10.	0.08 × ? × 2.5 = a) 6.5	= 1.12 b) 6.6	c) 5.5	d) 5.6	e) None of these
11.	The population of a town is 198000. It increases by 7% in the 1 st year and decreases by 5 the 2 nd year. What is the population of the town at the end of 2 years? What is the population of the town at the end of 2 years?				
	of the town at that a) 211860	he end of 2 years b) 201267	? c) 222453	d) 198900	e) None of these
12.		me in place of th	ne question mark	(?) in the follow	ving number series?
	3 7 13 ? 31 43 a) 18	b) 19	c) 23	d) 21	e) None of these
13.	If $x + y = 20$ and a) 232 b) 400	d $xy = 84$; what c) 128		$\frac{y^2}{y^2}$ not be determined	d e) None of these
14.	In how many di a) 5040	fferent ways can b) 720	the letters of the c) 1260	e word 'ABILIT' d) 2420	Y' be arranged? e) None of these
15.	The difference between a two digit number and the number obtained by interchanging two digits of the number is 9. The sum of the two digits of the number is 15. What is the product of two digits of two digit number?				

a) 54

b) 72

c) 56

d) Can't be determined e) None of these

16.		a watch with 24 ^o ginal selling pric b) Rs.950			If the watch cost her Rs.779. ermined e) None of these		
17.		an amount of nount of compou b) Rs.799			er annum for 3 years. What end of 3 years? e) Rs.897		
18.	revolutions in 8 at the starting p	34 s, 56 s and 63 ooint?	s respectively.	After how many	stadium. They complete their seconds will they be together		
	a) 336	b) 504	c) 252	d) Can't be dete	ermined e) None of these		
19. Asmita invests an amount of Rs.9535 at the rate of 4% per annu of Rs.11442 on simple interest after a certain period. For how mamount to obtain the total sum?							
	a) 10 years	b) 2 years	c) 5 years	d) 4 years	e) None of these		
20.			total cost of 21 l	kg of sugar, 26 k	s Rs.544 and the cost of 21 kg g of rice and 19 kg of wheat? e) None of these		
21.	question?	That approximate value should come in place of the question mark (?) in the following testion? $876 \times 20.6 + 165.34 = ?$					
	a) 700	b) 686	c) 775	d) 846	e) 745		
22	Th	4		1.6120 William	1 - 1		
22.	a) 132	b) 128	c) 124	d) 126	is t he larger number? e) None of these		
23.	A sum of money is to be divided equally amongst A, B and C in the respective ratio of 3:4:5 and another sum of money is to be divided between E and F equally. If F got Rs.1050 less than A, how much amount did B receive? a) Rs.750 b) Rs.2000 c) Rs.1500 d) Can't be determined e) None of these						
24.	Find the average of the following sets of scores. 178, 863, 441, 626, 205, 349, 462, 820						
	a) 505	b) 441	c) 349	d) 493	e) None of these		
25. The difference between 38% of a number and 24% of 40% of that number?		24% of the san	ne number is 135.10. What is				
	a) 394	b) 370	c) 378	d) 386	e) None of these		
26.	16 men can con same piece of v		f work in 8 days	. In how many o	days can 12 men complete the		
	a) 10	b) 9-1/3	c) 10-2/3	d) Can't be dete	ermined e) None of these		
27.	number of feet	are 190. How ma	any cows does K	Aishan have?	imal heads are 59 and the total		
	a) 36	b) 32	c) 23	d) Can't be dete	ermined e) None of these		
28.		or of a fraction Itant fraction is 7			denominator is increased by 1?		

a) 7/15

b) 2/15

c) 8/15

d) 5/7

e) None of these

29. If 412 is added to the square of a number the answer, so obtained is 7457. What is the number?

a) 76

b) 63

c) 81

d) 82

e) None of these

30. What is the least number to be added to 4700 to make it a perfect square?

a) 74

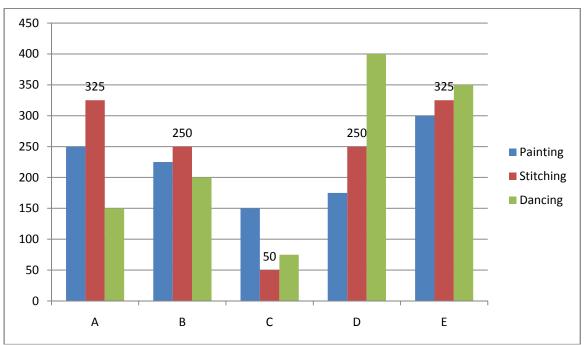
c) 76

d) 61

e) None of these

Directions (Q. 31-35): Study the graph carefully to answer the questions that follow:

Number of girls enrolled in different hobby classes in various institutes in a year



31. What is the respective ratio of total number of girls enrolled in Painting in the Institutes A and C together to those enrolled in Stitching in the Institutes D and E together?

a) 5:4

b) 5:7

c) 16:23

d) 9:8

e) None of these

32. Number of girls enrolled in Stitching in Institute B forms approximately, what percent of the total number of girls enrolled in Stitching in all the Institutes together?

a) 29

b) 21

c) 33

d) 37

33. What is the respective ratio of total number of girls enrolled in Painting, Stitching and Dancing from all the Institutes together?

a) 44: 48: 47 b) 43: 47: 48 c) 44: 47: 48 d) 47: 48: 44 e) None of these

34. Number of girls enrolled in Dancing in Institute A forms, what percent of total number of girls enrolled in all the hobby classes together in that institute? (Rounded off to two digits after decimal)

a) 23.87

b) 17.76

c) 31.23

d) 33.97

e) 20.69

35. What is the total number of girls enrolled in Painting from all the institutes together?

a) 1150

b) 1200

c) 1275

d) 1100

e) None of these

Reasoning Ability

36.		uence following a logic a BFJPV, then one more vari b) DHLRX e) None of these	and another five letter sequence fol ation of this type can be c) VPJFB	lowing	
37. If LMN is to ZYX and EFG is to DCB, then RST is to a) WVU b) ORO c) KJI d) Can't be determined e) None of these					
38.	Which of the following a) RT:UV d) Can't be determined	has the same relationship a b) EF:GH e) None of these	as that of JL:KM? c) CE:DB		
39.	39. Four of the following five are alike in a certain way and so from a group. Which is that does not belong to the group?			he one	
	a) LOJ d) ILN	b) FID e) CFA	c) RUP		
40.	40. Which of the following will be the next letter in the following letter series? B C E H L ?				
	a) Q d) Can't be determined	b) P e) None of these	c) O		
conclus which o	ions I and II. You have	to take the two or three g	r two or three statements followed begiven statements to be true and then he two/three given statements, disreg	decide	
b) If on c) If eit d) If ne	swer ly conclusion I follows ly conclusion II follows her conclusion I or II foli ither conclusion I nor II fo th conclusions I and II fo	follows			
41.	Statements:	No table is wood. Some woods are chairs.			
	Conclusions:	All chairs are stones. I. No stone is table. II. Some stones are woods	S.		
42. Statements:		All letters are black. All black are blue.			
	Conclusions:	No blue is green. I. No letter is green. II. Most blue are black.			
43.	Statements:	Some fruits are mangoes. Some mangoes are red. All red are vegetables.			

Conclusions: I. No fruit is red.

II. Some fruits are red.

44. **Statements:** Some eyes are ears.

Some ears are hands.

Conclusions: I. No hand is an eye.

II. Some eyes are hands.

45. **Statements:** Some books are pens.

Some pens are pencils.

Some pencils are buttons.

Conclusions: I. Some buttons are pens.

II. Some pencils are books.

46. **Statements:** Some caps are shirts.

All shirts are papers.

Conclusions: I. All shirts which are caps are papers.

II. Some shirts are caps.

47. **Statements:** 10% shoes are chappals. 5% chappals are papers. 99% papers are

pens.

Conclusions: I. Some shoes are papers.

II. Some shoes are pens.

48. **Statements:** All A are Z.

All Z are X.

All Y are A.

Conclusions: I. All A are Y.

II. All Y are X.

49. **Statements:** Some water is cold.

No cold is milk.

Some milk is water.

Conclusions: I. Some water that is cold is milk.

II. Some milk that is water is cold.

50. **Statements:** Some waste is white.

Some white is water.

Some water is waste.

Conclusions: I. Some waste which is white is water.

II. Some water is neither waste nor white.

51. 'Nail' is related to 'Nail-cutter' in the same way as 'Hair' is related to _____

a) oil b) comb c) scissors

d) hair-cut e) colour

- 52. Madhu said, "My mother's only son Ashok has no son". Which of the following can be concluded?
 - a) Ashok has only daughters
 - b) Ashok is not married
 - c) Ashok does not have a father
 - d) Ashok has only one sister
 - e) None of these
- 53. Which of the following must be there to call something a 'Song'?

a) Musical instrumentsb) Classical singer

	c) Words					
	d) Film					
	e) Drama					
54.	Four of the following five are alike in a certain way and so form a group. Which is the one					
	that does not belong to that group?					
	a) Brother	b) Grand father	c) Mother			
	d) Grand mother	e) Father				
55.	Four of the following five pairs one that does not belong to that a) RICE:ECIR b) WINGS:SGNIW c) SMART:RTSMA d) COUSIN:SINCOU e) BRAKE:AKRFB		nin way and so form a group. Which is the			
Directi	ons (Q. 56-60) Study the following	ing information to a	nswerr the given questions.			
(A)	(A) Six plays are to be organized from Monday to Sunday-One play each day with one day whe there is no play. 'No play' day is not Monday or Sunday.					
	The plays are held in sets of 3 plays each in such a way that 3 plays are held without are break i.e., 3 plays are held in such a way, that there is no 'No play' day between them be immediately before this set or immediately after this set it is 'No play' day.					
	Play Z is held on 26 th and play X was held on 31 st of the same month.					
(D) Play B was not held immediately after play A (but was held			but was held after A, not necessarily			
	immediately) and play M was h	neld immediately be	fore Q'.			
(E)	All the six plays were held in the same month.					
56.	Which play was organized on M	Ionday?				
	a) Z	b) M	c) Q			
	d) Can't be determined	e) None of these				
57.	57. Which day was play Z organized?					
	a) Tuesday	b) Monday	c) Wednesday			
	d) Can't be determined	e) None of these				
58.	Which date was a 'No play' day	<i>i</i> ?				
	a) 26 th	b) 28 th c)	29 th			
	d) Can't be determined	e)				
59.	Which of the following is true?					
	a) Play B is held immediately before play M					
	b) Play Z is held after play B					
	c) There was a gap after 2 plays and then 4 plays were organized					
	d) First play was organized on 2e) Play B was held on Friday	25				
60						
00.	Which day was play Q organize a) Friday	b) Wednesday	c) Saturday			
	d) Can't be determined	e) None of these	c) Saturday			
	a, can the determined	c) None of these				
Directi	ons (O. 61-65) Study the followi	ing information to a	nswer the given questions			

Dir

- (i) In a family of 6 persons, there are two couples.
- (ii) The Lawyer is the head of the family and has only two sons-Mukesh and Rakesh-both Teachers
- (iii) Mrs.Reena and her mother-in-law both are Lawyers
- (iv) Mukesh's wife is a Doctor and they have a son, Ajay.
- 61. Which of the following is definitely a couple?
 - a) Lawyer-Teacher
 - b) Doctor-Lawyer
 - c) Teacher-Teacher
 - d) Can't be determined
 - e) None of these
- 62. What is the profession of Rakesh's wife?
 - a) Teacher

- b) Doctor
- c) Lawyer

- d) Can't be determined
- e) None of these
- 63. How many male members are there in the family?
 - a) Two

- b) Three
- c) Four

- d) Can't be determined
- e) None of these
- 64. What is/was Ajay's Grandfather's occupation?
 - a) Teacher

- b) Lawyer
- c) Doctor

- d) Can't be determined
- e) None of these
- 65. What is the profession of Ajay?
 - a) Teacher

- b) Lawyer
- c) Doctor

- d) Can't be determined
- e) None of these

Directions (Q. 66-70) In each question below, is given a statement followed by two assumptions numbered I and II. An assumption is something supposed or taken for granted. You have to consider the statement and the following assumptions and decide which of the assumptions is implicit in the statement.

Give answer (a) if only assumption I is implicit

Give answer (b) if only assumption II is implicit

Give answer (c) if either assumption I or II is implicit

Give answer (d) if neither assumption I nor II is implicit

Give answer (e) if both assumptions I and II are implicit

- 66. **Statement:** Please send an official letter rather than semi-official on this subject this time. **Assumptions:**
- I. The format and emphasis of different types of letters is different.
- II. We can sent different types of letters on the same subject.
- 67. **Statement:** Please check the availability of 2 tickets from Delhi to Lucknow.

Assumptions:

- I. Person checking knows the desired mode of travel.
- II. Person checking knows the details of the person travelling.
- 68. **Statement:** If you want to increase you writing speed, use 0.7 pen.

Assumptions:

- I. There are different types of pens available.
- II. The person being told understands what is 0.7 pen.

- 69. **Statement:** In order to build more space, extra FSI needs to be bought. **Assumptions:**
- I. The person being told does not know the meaning of FSI.
- II. More space will reduce the construction cost.
- 70. **Statement:** Let there be a sign-board also indicating the directions and instructions. **Assumptions:**
- I. Sign-board can be prepared without using any language.
- II. Sign-board is the only effective tool to indicate directions.